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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,587	07/31/2003	Dong-Churl Kim	3364P126	5010
8791	7590 11/02/20	04	EXAM	INER
	SOKOLOFF TAY	VY, HUNG T		
SEVENTH :		ART UNIT	PAPER NUMBER	
LOS ANGE	LES, CA 90025-103	2821	-	

DATE MAILED: 11/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	action No	Applicant/s)					
			cation No.	Applicant(s)					
Office Astion Commons		10/63	32,587	KIM ET AL.					
	Office Action Summary	Exam	iner	Art Unit	ر م				
		Hung		2821	(0,				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)∏ R	esponsive to communication(s) file	ed on .							
•—	This action is FINAL . 2b)⊠ This action is non-final.								
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition	of Claims								
4a 5)□ C 6)⊠ C 7)□ C	 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Application	Papers								
9)∐ Th	e specification is objected to by th	e Examiner.							
10)□ Th	10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority und	der 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
Attachmant/-									
Attachment(s)	f References Cited (PTO-892)		4) Interview	Summary (PTO-413)					
2) Notice of 3) Information	f Draftsperson's Patent Drawing Review (Fion Disclosure Statement(s) (PTO-1449 or o(s)/Mail Date <u>7/31/2003</u> .	PTO-948) PTO/SB/08)	Paper No	o(s)/Mail Date Informal Patent Application (P	TO-152)				

DETAILED ACTION

Acknowledges

1. Receipt is acknowledged of the following items from the Applicant.

Information Disclosure Statement (IDS) filed on 07/31/2003. The references cited on the PTOL 1449 form have been considered.

Foreign Priority

2. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Korea on 12/17/2002.

Specification

3. The specification has been checked to the extent necessary to determine the presence of possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 10/632,587 Page 3

Art Unit: 2821

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U. S. C. § 102 (b) as being anticipated by Hiroki, U.S. patent No. 5,757,840.

Claim 1, Hiroki discloses a laser modulation comprising, in one element, two distributed feedback (DFB) sections (125a and 125b)(See column 6, line 8-14) opposed to each other (See fig. 8), and a phase control section (124) between the two DFB sections (125a and 125b), the high frequency optical pulse source further comprising: gratings (121) formed inside the DFB sections and symmetrical to each other (see fig. 8); and active layer (132) of both DFB sections (125a and 125b) being associated with both sides of a waveguide core of the phase control section (124), thereby allowing Bragg Wavelength detuning of both DFB (See column 8, line 50-55).

Claim 3, Hiroki shows on fig. 8 with the gratings positioned inside both DFB section are independently formed on the same plane overlying or underlying the active layer, thereby allowing independent Bragg wavelength detuning.

Claim Rejections - 35 U.S.C. § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth insection 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made

Application/Control Number: 10/632,587 Page 4

Art Unit: 2821

to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claim 2 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Hiroki, U.S. patent No. 5,757,840.

Claim 2, Kiroki discloses the claimed invention except for the gratings, underlying and overlying the active layers. It would have been obvious to one having ordinary skill in the art at the time the invention was made to the grating, underlying and overlying the active layers, since it has been held that the provision of adjustability, where needed, involves only routine skill in the art. In re Stevens, 101 USPQ 284 (CCPA 1954).

7. Claims 4-5 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Hiroki, U.S. patent No. 5,757,840 in view of Evans et al, U.S. Patent No. 6,636,547.

Claims 4-5, Kiroki disclose all limitations of invention except for gratings are formed by holography and both DFB but Evans et al. disclose the gratings are formed by holography (See column 15, line 16-22). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify Hiroki to have gratings formed by holography as taught by Evans et al. The motivation for doing so would have been to provide different way to form the grating in ordered to easy to make the grating.

Conclusion

Application/Control Number: 10/632,587 Page 5

Art Unit: 2821

8. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references

cited to assist the examiner to locate the appropriate paragraphs.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung Vy whose telephone number is (571) 272-1954.

The examiner can normally be reached on Monday-Friday 8:30 am - 5:30pm. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Don Wong can be reached on (571) 272-1834. The fax numbers for the

organization where this application or proceeding is assigned are (703) 872-9306 for

regular communications and (703) 308-7722 for After Final communications.

Information regarding the status of an application may be obtained from the

patent Application Information Retrieval (PAIR) system. Status information for published

application may be obtained from either private Pair or Public Pair. Status information

for unpublished applications is available through Private Pair only. For more information

about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on

access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

Hung T. Vy Art Unit 282₽

October 23, 20014

WILSON LEE

Application/Control Number: 10/632,587

Art Unit: 2821

Page 6